

UNITED STATES PATENT AND TRADEMARK OFFICE

UNITED STATES DEPARTMENT OF COMMERCE United States Patent and Trademark Office Address: COMMISSIONER FOR PATENTS P.O. Box 1450 Alexandria, Virginia 22313-1450 www.uspto.gov

APPLICATION NO.	FILING DATE	. FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO
09/926,138	09/10/2001	Atsushi Sugiyama	534037MO	9406
75	90 01/14/2004		EXAM	INER
ERIC S SPECTOR			SAUCIER, SANDRA E	
JONES TULLAR & COOPER PC PO BOX 2266 EADS STATION			ART UNIT	PAPER NUMBER
ARLINGTON, VA 22202			1651	

DATE MAILED: 01/14/2004



Please find below and/or attached an Office communication concerning this application or proceeding.

Office Action Summary		Application No.	Applicant(s)				
		09/926,138	SUGIYAMA, ATSUSHI				
		Examiner	Art Unit				
		Sandra Saucier	1651				
The MAILING DATE of this communication appears on the cover sheet with the correspondence address Period for Reply							
A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) FROM THE MAILING DATE OF THIS COMMUNICATION. - Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication. - If the period for reply specified above is less than thirty (30) days, a reply within the statutory minimum of thirty (30) days will be considered timely. - If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication. - Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). - Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b). Status							
1)	1) Responsive to communication(s) filed on <u>12/3/03, 8/28/03</u> .						
2a)⊠	This action is FINAL . 2b) ☐ This action is non-final.						
3) Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under <i>Ex parte Quayle</i> , 1935 C.D. 11, 453 O.G. 213.							
Dispositi	on of Claims						
4)🖂	4) Claim(s) <u>1-9</u> is/are pending in the application.						
	4a) Of the above claim(s) is/are withdrawn from consideration.						
5)🖂	5) Claim(s) <u>2-9</u> is/are allowed.						
6)⊠	6)⊠ Claim(s) <u>1</u> is/are rejected.						
7)	7) Claim(s) is/are objected to.						
8) Claim(s) are subject to restriction and/or election requirement.							
Application Papers							
9) The specification is objected to by the Examiner.							
10)🛛	10) \boxtimes The drawing(s) filed on <u>10 September 2001</u> is/are: a) \boxtimes accepted or b) \square objected to by the Examiner.						
	Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).						
	Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).						
11) The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.							
Priority under 35 U.S.C. §§ 119 and 120							
12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f). a) All b) Some * c) None of: 1. Certified copies of the priority documents have been received. 2. Certified copies of the priority documents have been received in Application No 3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)). * See the attached detailed Office action for a list of the certified copies not received. 13) Acknowledgment is made of a claim for domestic priority under 35 U.S.C. § 119(e) (to a provisional application) since a specific reference was included in the first sentence of the specification or in an Application Data Sheet. 37 CFR 1.78. a) The translation of the foreign language provisional application has been received. 14) Acknowledgment is made of a claim for domestic priority under 35 U.S.C. §§ 120 and/or 121 since a specific reference was included in the first sentence of the specification or in an Application Data Sheet. 37 CFR 1.78.							
Attachment	` <i>'</i>	,, []					
2) 🔲 Notice	e of References Cited (PTO-892) e of Draftsperson's Patent Drawing Review (PTO-948) ation Disclosure Statement(s) (PTO-1449) Paper No(s)	5) Notice of Informal Par	PTO-413) Paper No(s) tent Application (PTO-152)				

Art Unit: 1651

DETAILED ACTION

Claims 1-9 are pending and are considered on the merits.

Claim Rejections – 35 USC § 103

Claim 1 is rejected under 35 U.S.C. 103(a) as being unpatentable over US 5,891,702 [A].

The claim is directed to a method of removing non-cyclic adenine nucleotides from a sample comprising: adding apyrase, alkaline phosphatase and adenosine deaminase to the sample without the addition of a 5'nucleotidase.

The references are relied upon as explained below.

US 5,891,702 disclose a one step method of treating a biological sample with adenosine deaminase and at least one other enzyme selected from the group consisting of apyrase, alkaline phosphatase, acid phosphatase, hexokinase and ATPase (col. 6, ls. 11–16). No use of 5'-nucleotidase is suggested.

It would have been obvious to use the combination of adenosine deaminase, apyrase and alkaline phosphatase without the use of a 5'-nucleotidase because the reference clearly suggests using this combination.

One of ordinary skill in the art would have been motivated at the time of invention to perform these reactions in order to obtain the results as suggested by the references with a reasonable expectation of success. The claimed subject matter fails to patentably distinguish over the state of the art as represented by the cited references. Therefore, the claims are properly rejected under 35 U.S.C. § 103.

Allowable Subject Matter

Claims 2-9 are allowable.

Art Unit: 1651

Conclusion

Page 3

Applicant's amendment necessitated the new ground(s) of rejection presented in this Office action. Accordingly, THIS ACTION IS MADE FINAL. See MPEP § 706.07(a). Applicant is reminded of the extension of time policy as set forth in 37 CFR 1.136(a).

A shortened statutory period for reply to this final action is set to expire THREE MONTHS from the mailing date of this action. In the event a first reply is filed within TWO MONTHS of the mailing date of this final action and the advisory action is not mailed until after the end of the THREE-MONTH shortened statutory period, then the shortened statutory period will expire on the date the advisory action is mailed, and any extension fee pursuant to 37 CFR 1.136(a) will be calculated from the mailing date of the advisory action. In no event, however, will the statutory period for reply expire later than SIX MONTHS from the date of this final action.

To aid in correlating any papers for this application, all further correspondence regarding this application should be directed to Group Art Unit 1651. The supervisor for 1651 is M. Wityshyn, (703) 308–4743. The normal work schedule for Examiner Saucier is 8:30 AM to 5:00 PM Monday and Tuesday and 8:30 AM to noon on Wednesday.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Sandra Saucier whose telephone number is (703) 308–1084. Status inquiries must be directed to the Customer Service Desk at (703) 308–0197 or (703)–308–0198. The number of the Fax Center for the faxing of official papers is (703) 872–9306.

Sandra Saucier

Primary Examiner

Art Unit 1651

January 9, 2004